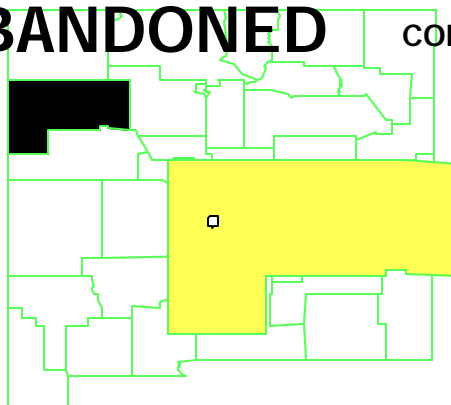


PREWITT ABANDONED REFINERY NEW MEXICO

EPA ID# NMD980622773



REGION 6
CONGRESSIONAL DISTRICT 03
McKinley County
West of Prewitt on U.S. Hwy. 66

Other Names:
Petroleum Products Refinery
Prewitt Tar Pits

Last Update 11/30/99

Site Description

- Location:** ! Two tracts west of Prewitt on U.S. Highway 66 in McKinley County.
! Some of the site is located on Navajo tribal lands.
- Population:** ! Approximately 75 people live within a 1 mile radius of the site.
- Setting:** ! An estimated 1,600 people draw from the public and private wells within three miles of the site.
! Tract A, South of Highway 66, is 68.2 acres and contains the ruins of the refinery, including waste pits, oil/water separator, tank bases, and other rubble.
! Tract B, North of Highway 66, is 6.8 acres and includes two major spill areas and the remains of a pump lift station.
- Hydrology:** ! A shallow sandstone aquifer, which is the principal water supply has been contaminated to 200 ft. depth. A 700 ft. deep zone also shows evidence of contamination.

Wastes and Volumes

Principal pollutants:

- ! Ground water: lead, benzene, toluene, ethylbenzene, xylene, non-aqueous phase liquids
- ! Soils: asbestos, lead and polynuclear aromatic hydrocarbons ("PAHs")
- ! Separator: petroleum sludges

Volume:

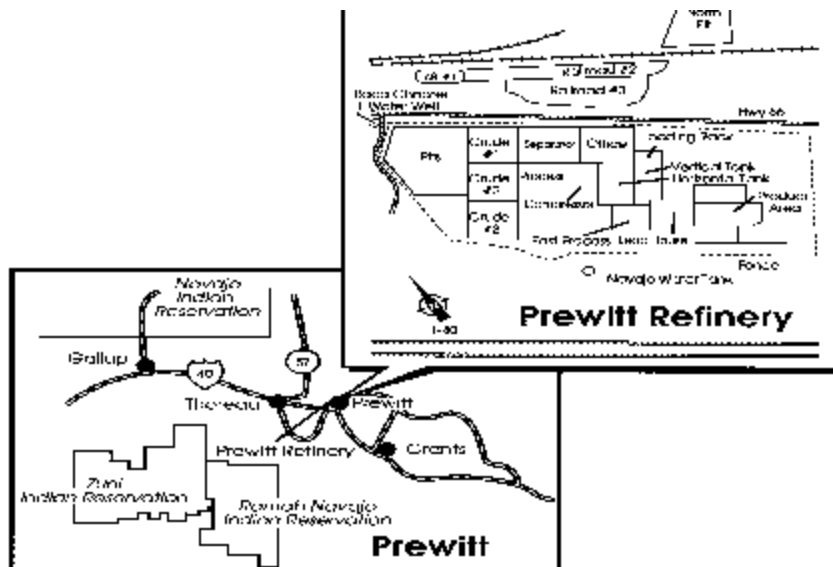
- ! Approximately 50,000 gallons of contaminated ground water
- ! Approximately 43,500 gallons of non-aqueous phase liquids (NAPL)
- ! Approximately 15 cubic yards of asbestos containing materials
- ! Approximately 1175 cubic yards of pit material
- ! Approximately 1500 cubic yards of PAH contaminated soils
- ! Approximately 665 cubic yards of lead contaminated soils
- ! Approximately 80 cubic yards of sludges in the separator

Site Assessment and Ranking

NPL LISTING HISTORY

Site HRS Score: 44.24
Proposed Date: 6/24/88
Final Date: 8/17/90
NPL Update: No. 7

Site Map and Diagram



The Remediation Process

Site History:

- ! July 1989, under an agreement with EPA, Potentially Responsible Party (PRP) began activities to reduce immediate threats.
- ! PRP removal activities included: construction of a fence, treating well water to remove contaminants, provide alternate well water supply, and installation of a carbon filtration system.
- ! April 1990, PRP removal activities completed.
- ! Remedial Investigation (RI) Completed August 1991.
- ! Feasibility Study (FS) completed February 1992
- ! Record of Decision (ROD) signed on September 30, 1992.
- ! Special Notice for financing and performance of Remedial Design/Remedial Action (RD/RA) was issued to PRPs on December 30, 1992.

! Unilateral Administrative Order was issued to ARCO and El Paso Natural Gas on May 14, 1993. Both parties have informed EPA that they intend to comply with the Unilateral Administrative Order.

Health Considerations:

- ! Contamination of residential wells adjacent to the site; one well has been closed and a second has become contaminated.
- ! Direct contact with or ingestion of contaminated soils and ground water

Record of Decision

Signed: September 30, 1992

Ground Water:

- ! Ground Water Pump and Treat
- ! Soil Vapor Extraction of the Non-Aqueous Phase Liquids

Soil Treatment:

- ! Soil vapor extraction of the non-aqueous phase liquids
- ! Landfarming of the West Pits area and hydrocarbon contaminated soils
- ! Excavation and off site disposal of asbestos containing materials, lead contaminated soils and separator contents

Community Involvement

- ! Constituency Interest: Moderate/major concern is well contamination, or the potential for contamination.
- ! Outreach Activities: Update to NPL, August 17, 1990; fact sheet 9/90.
- ! Community Relations Plan: 12/1/89
- ! RI Activities: Local officials briefed 9/88; fact sheet 9/90; open house 9/90, open house 6/91, fact sheet 7/91, open house 4/92; public meeting 7/92.
- ! Proposed Plan: 7-18-92
- ! ROD fact sheet: 12-21-92
- ! Revised Community Relations Plan: In development
- ! RD/RA Activities: Open house 5/94; fact sheet 5/94; RD complete fact sheet 2/95; open house 3/95; ground breaking and Tribal blessing ceremony 4/22/95; RA status open house 5/96, proposed partial deletion fact sheet, open house, 7/97; public notice, 10/97;
- ! Citizens on site mailing list: 75
- ! Site Repository: Prewitt Fire House, Highway 66, Prewitt, NM 8704
- ! An Open House to discuss the proposed surface portion deletion of the site was held on July 24, 1997.
- ! The notice in the Federal Register asking for comments on the proposed partial deletion was published on October 6, 1997. Two comments were received during the public comment period.

Technical Assistance Grant

- ! Availability Notice: 2/89, 5/94
- ! Letters of Intent Received: None; request for application packet 5/94
- ! Grant Award: N/A

Contacts

- ! **Remedial Project Manager (EPA):** Greg Lyssy, 214/665-8317, Mail Sta. 6SF-LT
- ! **State Contact:** Dana Bahar, 505/827-2908
- ! **Navajo Superfund Contact:** Levon Benally, 520/871-7327
- ! **Community Involvement Coord. (EPA):** Nancy Stonebarger, 214/665-6619, Mail Sta. 6SF-PO
- ! **Attorney (EPA):** James E. Costello, 214/665-8045, Mail Sta. 6SF-DL
- ! **State Coordinator (EPA):** Joe Massey, 214/665-7408, Mail Sta. 6SF-LN
- ! **Potential Responsible Parties:** El Paso Natural Gas Company and ARCO

Present Status and Issues

- ! PRPs are complying with the Unilateral Administrative Order for the Remedial Design and the Remedial Action.
- ! The surface remediation has been completed. The sampling of the landfarm which was constructed in May 1996, indicates that the concentrations of the contaminants of concern in the soils and sludges are below the remedial action goals. The landfarm was dismantled in November 1996.
- ! EPA has completed the partial deletion of the surface portion of the site from the National Priorities List. The surface soils have been remediated to residential standards. A Notice of Intent to Delete the surface portion of the Site appeared in the October 6, 1997, Federal Register. The comment period for the Notice closed on November 5, 1997. Two favorable comments were received. The final Notice for the partial deletion appeared in the Federal Register on January 29, 1998.
- ! The Soil Vapor Extraction system is in operation. The operation and maintenance plan is currently being implemented.
- ! EPA received the final Phase I Subsurface Completion Report and Phase II Subsurface Remediation Plan for the North NAPL Area on May 6, 1998. The plan was approved in September 1998.

Benefits

- ! Remediation of the Prewitt Superfund Site will reduce environmental risks for 75 people that live within a 1 mile radius of the site, and improving environmental conditions on the Navajo Tribal Lands.
- ! The site will be remediated to allow for future residential use.